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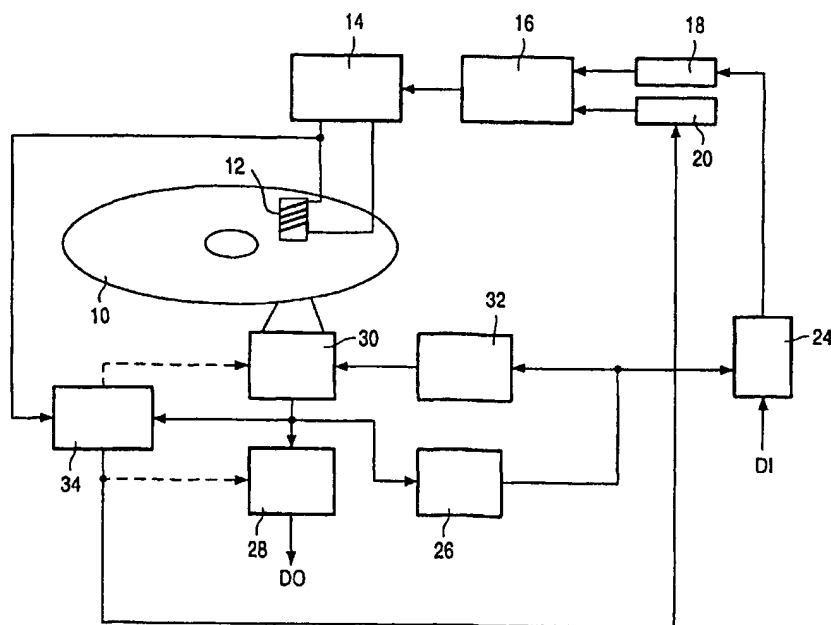
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[Continued on next page]

(54) Title: COPY WINDOW CONTROL FOR DATA DEPENDENT FIELD SWITCHING IN DOMAIN EXPANSION READ-OUT



(57) Abstract: The present invention relates to a method and apparatus for controlling a copy window during read-out of a domain expansion medium (10), wherein a switching time of an external magnetic field is derived from a reading pulse. A shift in the timing of said reading pulse is used for controlling the size of the copy window. Thereby, read-out errors due to changes in the size of the copy window can be prevented.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 913 818 A (SANYO ELECTRIC CO ;HITACHI MAXELL (JP)) 6 May 1999 (1999-05-06) the whole document	1, 16
A	US 6 058 077 A (MIYAOKA YASUYUKI) 2 May 2000 (2000-05-02) the whole document	1, 16
A	WO 98 15949 A (SANYO ELECTRIC CO ;YAMAGUCHI ATSUSHI (JP); SUMI SATOSHI (JP); TANA) 16 April 1998 (1998-04-16) the whole document & US 6 538 968 B1 (YAMAGUCHI ATSUSHI ET AL) 25 March 2003 (2003-03-25)	1, 16

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Patent family members are listed in annex.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0913818	A	06-05-1999	AU 3459997 A	09-02-1998
			EP 0913818 A1	06-05-1999
			US 6424601 B1	23-07-2002
			WO 9802877 A1	22-01-1998
			KR 2000022390 A	25-04-2000
US 6058077	A	02-05-2000	JP 10092037 A	10-04-1998
WO 9815949	A	16-04-1998	AU 4322897 A	05-05-1998
			DE 19782042 T0	02-09-1999
			WO 9815949 A1	16-04-1998
			US 6538968 B1	25-03-2003